

BISCO® MF1® Firm Industrial Grade Bun Silicone Foam



BISCO® MF1® White is a firm silicone foam cast into a block form. It is a lightweight, durable and fire resistant material used in many cushioning and sealing applications, such as passenger rail car seating. The material is easily skived to desired thickness.

Features & Benefits:

- Superior flame, smoke, and toxicity (FST) resistance performance
- Outperforms competitive cushion foams in durability
- Ensure safety, long cushion life, and comfort
- Resistance to UV, ozone, and extreme temperatures for consistent performance across many environments
- † FDA compliant in accordance with regulation 21 CFR 177.2600

PROPERTY*	TEST METHOD	MF1-75 (FIRM)
PHYSICAL		
Color	Visual	White
Density, kg/m ³ (lb/ft ³)	ASTM D1056	112 (7.0)
Compression Force Deflection, kPa (psi)	ASTM D1056	4.1 - 12.4 (0.6 - 1.8)
Compression Set, %	ASTM D1056 100°C (212°F) / 22 hrs / 50%	1.5
Tensile Strength, kPa (psi)	ASTM D412	93 (13.5)
Elongation, %	ASTM D412	35
Tear Strength, PPI	ASTM D624	>2.0
Burn Length	FVMSS302 - Self Extinguishing	Pass
THERMAL		
Thermal Conductivity, W/m*K Uncompressed	ASTM C518	0.043
Low Temperature Flex -55°C (-67°F)	ASTM D1056	Pass
Recommended Constant Use, °C (°F)		200 (392)
ELECTRIC		
Dielectric Breakdown	ASTM D149 Method C: Slow rate of rise (500 v/s)	45
Volume Resistivity	ASTM D257)	7.0 X 10 ¹³

† Statement of FDA compliance is based solely on the following: MF1 (White) silicone foams (i) are compounded and cured under conditions of good manufacturing practice; (ii) have been subjected to annual extraction testing in accordance with FDA Regulation 21 CFR 177.2600 paragraphs (e) and (f) and found to meet all extractives limitations, both of which are criteria set forth in 21 CFR 177.2600 as necessary for rubber articles intended for repeated use in those areas specified in the regulation.

*Typical Value - Value is based on historical data. Please note the frequency of testing varies. Typical values should not be used for specification limits. Additional industry specifications are available. All other properties are based on industry standard guidelines. All metric conversions are approximate. Reference US customary units for official values and tolerances.

For more information and to request a sample, please contact our team of experts at solutions@rogerscorp.com